

Multiplex

Photonics for Communications



MULTIPLEX

ALL OF THE TOOLS.

Photonics for Communications



MISSION STATEMENT

To be a leading provider of

of high-end active opto-electronic
solutions for next-generation
optical networks

Receivers



1310nm EMLs



1550nm EMLs



Pump Lasers



Pump Combiners



Tunable EMLs



Transponders





MULTIPLY'S FACILITIES



Receivers



1310nm EMLs



1550nm EMLs



Pump Lasers



Pump Combiners



Tunable EMLs



Transponders



Technology Building Blocks

Technology

Expertise

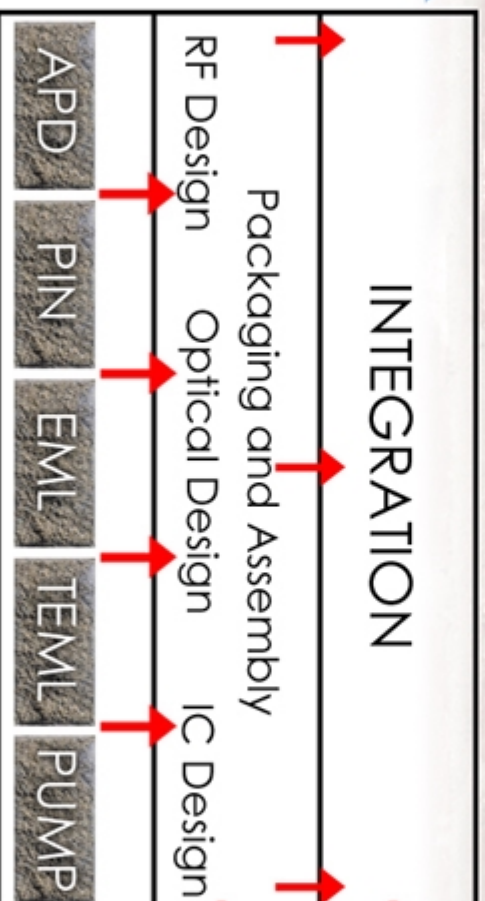
Products

Subsystems

Modules

MOCVD and
Processing

Vertical Integration



- Transponder
- Tunable EML
- Transmitter
- Pump Combiner
- 980 Pump
- EMLs
- Receivers

EXPANDING



VERTICAL INTEGRATION

Quality Assurance

Integration

Testing

Packaging

Processing

Wafer Growth

Design



Benefits:

- Reduced design cycle times
- Lower cost
- Ability to more easily customize products



CURRENT PRODUCTS

Single Output

Surface-Mount MSA

PIN/APD RECEIVERS

Differential Output

300-PIN

200-PIN

HIGH RELIABILITY 980 PUMP LASERS

High-Power
Modules

Ultra-High-Power
Pump Combiners

2 - 80km TRANSPONDERS

Flat-Top

7-Pin w/GPO

14-Pin

1310 and 1550 EMLS

TUNABLE LASERS w/ λ Locker

MTX-TEML
Tunable EML
Transmitter

MULTIPLY.
ALL OF THE TOOLS.

Receivers

1310nm EMLS

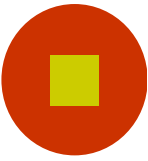
1550nm EMLS

Pump Lasers

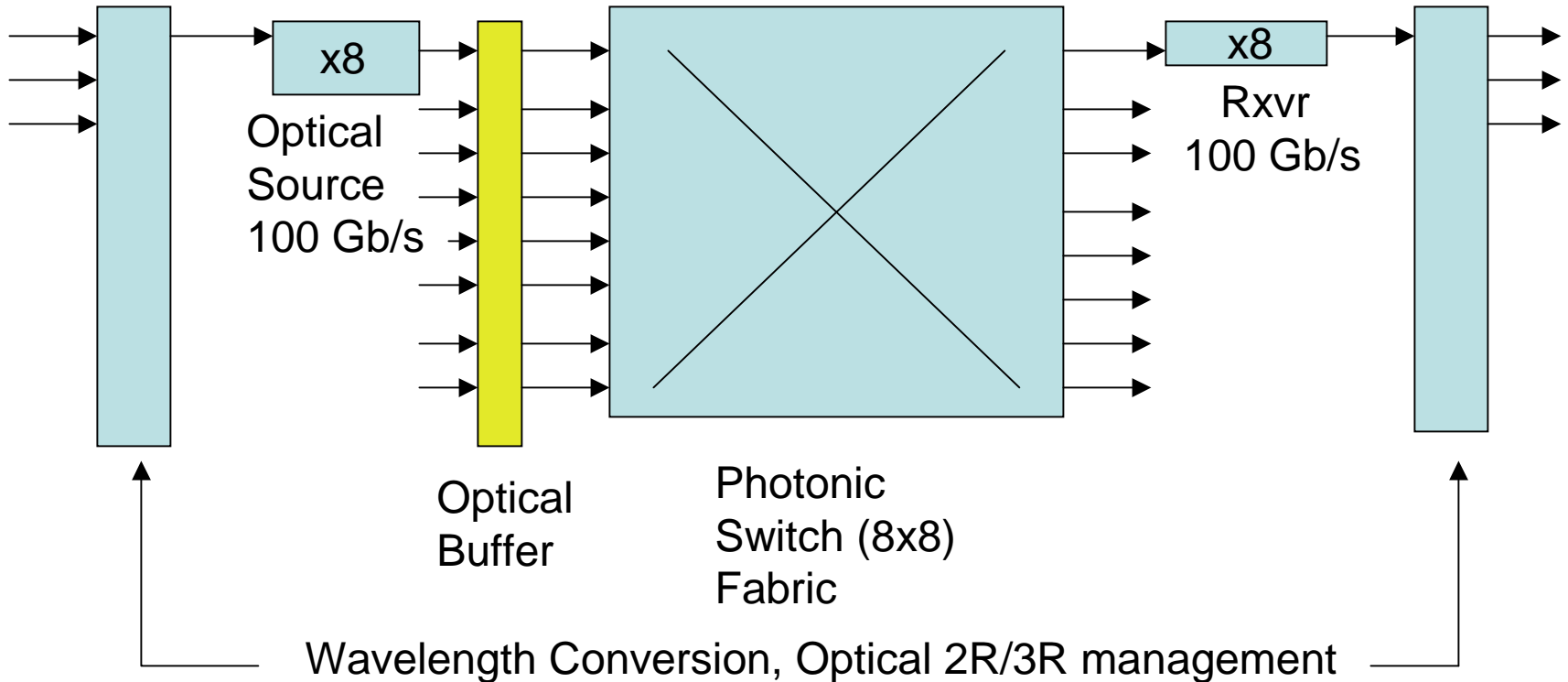
Pump Combiners

Tunable EMLS

Transponders



Chip-Scale Integrated Solutions



- 1) Integrated **Chip** Design, Epi-growth and Fabrication
- 2) High-speed **Module** Design and Packaging
- 3) High-speed **Transponder Subsystems** Design and Assembly



Integrated R&D Chips Fabricated Using Multiplex Technology

